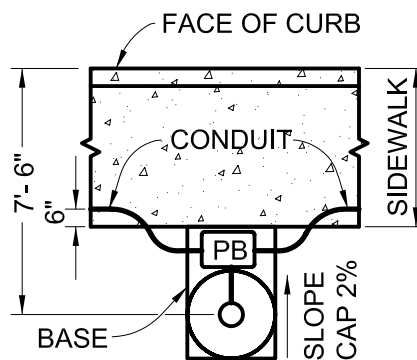
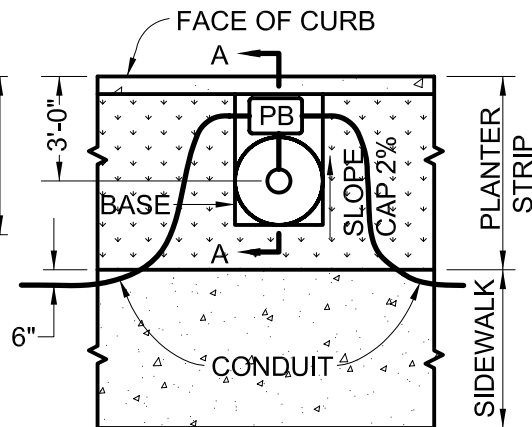


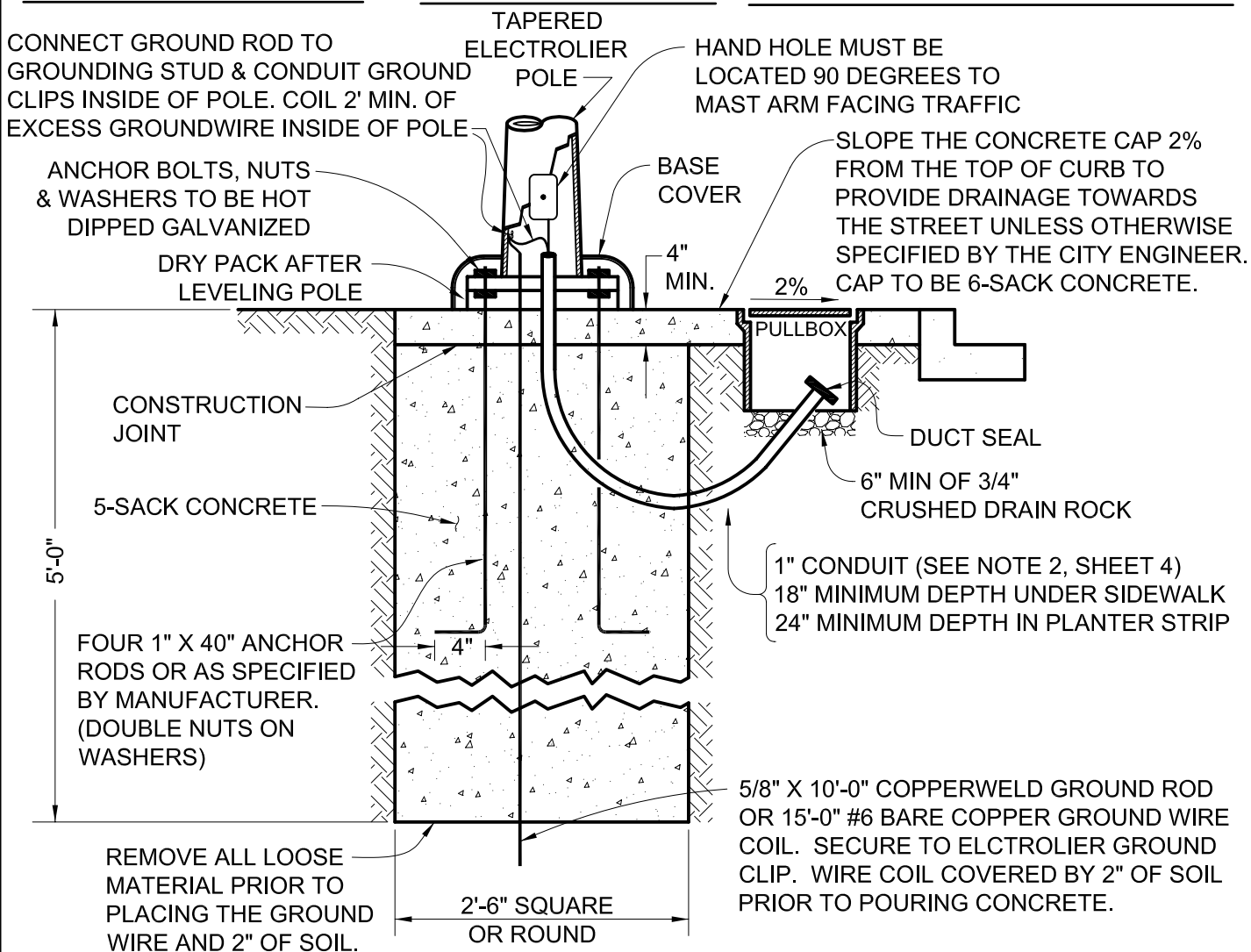
**INTEGRAL 10' SIDEWALK**



**INTEGRAL SIDEWALK**



**5' SIDEWALK WITH PLANTER STRIP**



**CITY OF FREMONT**  
STANDARD DETAILS  
**ELECTROLIER BASE**

DATE APPROVED BY CITY COUNCIL  
04/11/06

RESOLUTION NO. 2006-31

*Ham Hughes*

CITY ENGINEER

NO.	REVISED	DATE
REVISIONS		

FILE NO. SD-24-06.DWG	SCALE NONE	DRAWN WPM	CHECKED KC	DATE 03/14/06	DWG NO. SD-24	1 of 7
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ROUND, TAPERED OR ELLIPTICAL ARM - 6' LONG  
OR 12' LONG (AT MAJOR THROUGHFARE) SPUN  
ALUMINUM OR GALVANIZED STEEL (MATCH POLE)

INSTALL PHOTOELECTRIC  
CONTROL

LEVELING PAD

LUMINAIRE:

HIGH PRESSURE SODIUM VAPOR WITH  
120V / 240V MULTI-TAP LUMINAIRE,  
INTEGRAL MAG. - REG. BALLAST,  
ASA / IES TYPE III, CLEAR LAMPS.  
(M2AR 07 S 7 M 2 L MS3 1 U OR  
M2AR 10 S 7 M 2 L MS3 1 U OR  
APPROVED EQUAL)

SPUN ALUMINUM OR GALVANIZED  
STEEL ELECTROLIER POLE

ELECTROLIER SHALL BE OF THE TYPE AND SIZE  
AS SHOWN IN THE TABLE ON SD-24, SHEET 3.

30' MOUNTING HEIGHT (RESIDENTIAL)  
35' MOUNTING HEIGHT (MAJOR THROUGHFARE)

HAND HOLE WITH COVER - MINIMUM SIZE 4" x 6-1/2"  
AND LOCATED 90 DEGREES TO MAST ARM FACING  
TRAFFIC

BASE COVER (OR BOLT COVER REQUIRED)

TO MATCH GRADE OF NEW CONCRETE SURFACE

REFER TO ELECTROLIER BASE DETAIL (SD-24 SHEET 1.)

# CITY OF FREMONT STANDARD DETAILS

## ELECTROLIER ALUMINUM OR STEEL

DATE APPROVED BY CITY COUNCIL  
04/11/06

RESOLUTION NO. 2006-31

*Ham Hughes*

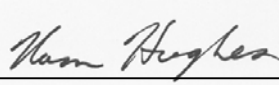
CITY ENGINEER

NO.	REVISED	DATE
REVISIONS		

FILE NO. SD-24-06.DWG	SCALE NONE	DRAWN WPM	CHECKED KC	DATE 03/14/06	DWG NO. SD-24	2 of 7
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# ELECTROLIER TYPE (OR EQUAL)

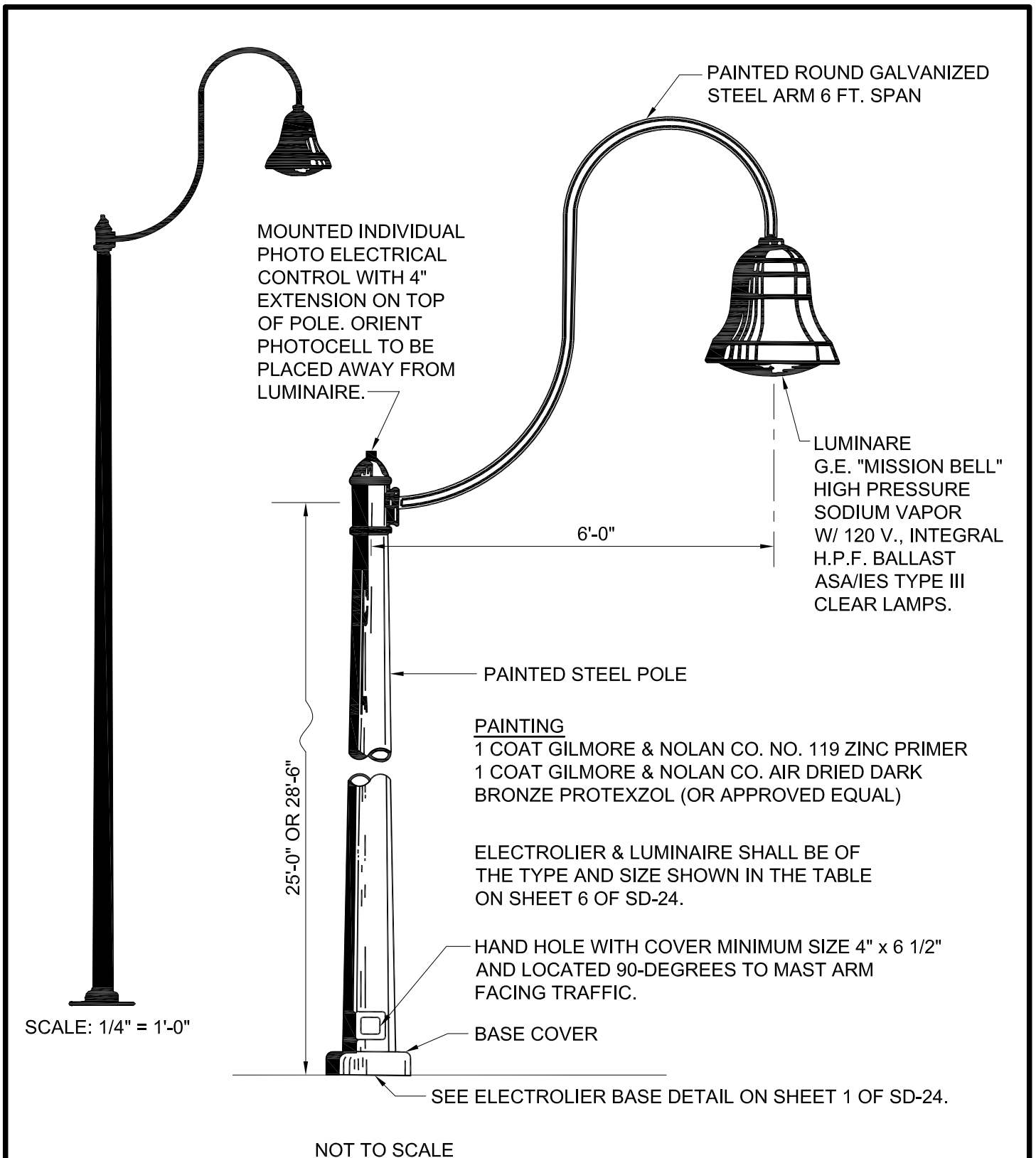
ALUMINUM		GALVANIZED STEEL	
Single 6' Arms	Double 6' Arms	Single 6' Arms	Double 6' Arms
SEE CITY OF FREMONT STANDARD SPECIFICATIONS SECTION 32		VALMONT DS32-750A286-6S	VALMONT DS32-750A286-6D
HAPCO 21-585 (0.188 MIN WALL THICKNESS) SEE CITY OF FREMONT STANDARD SPECIFICATIONS SECTION 32	HAPCO 21-585	AMERON PL-286-2	AMERON PL-286D-2
SEE CITY OF FREMONT STANDARD SPECIFICATIONS SECTION 32			
		VALMONT DS32-800A336-6S	VALMONT DS32-800A336-6D
		AMERON PL-336-2	AMERON PL-336D-2
30 FT		35 FT	

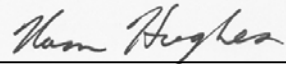
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						RESOLUTION NO. 2006-31			
									
						CITY ENGINEER			
NO.	REVISED	DATE	FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
REVISIONS			SD-24-06.DWG	NONE	WPM	KC	03/14/06	SD-24	3 of 7

## ELECTROLIER NOTES

1. ALL UNDERGROUND WIRING SHALL BE IN APPROVED CONDUIT. THE UNDERGROUND CONDUIT AND ALL METAL PARTS SHALL BE CONTINUOUSLY BONDED AND GROUNDED.
2. MINIMUM CONDUIT SHALL BE TYPE II, PVC OR ABS UL LISTED SUITABLE FOR DIRECT BURIAL. MINIMUM CONDUIT SIZE SHALL BE 1" BETWEEN THE POLE AND THE PULL BOX FOR AWG NO. 8 AND 1 ½" MIN. FOR AWG NO. 6 AND LARGER. ALL CONDUIT ENDS SHALL BE PLUGGED WITH DUCT SEALING COMPOUND.
3. MINIMUM RADIUS OF BENDS SHALL BE 18 INCHES. ALL BENDS AND/OR OFFSETS SHALL BE ACCOMPLISHED WITH FACTORY FORMED SECTIONS.
4. ALL PLASTIC CONDUIT STUBS INTO BASE SHALL BE COMPLETED BY A 90° RIGID METALLIC OR PLASTIC CONDUIT ELL, AND EXTENSION AS REQUIRED.
5. PULL BOXES SHALL BE CHRISTY N-9 (OR APPROVED EQUAL). COVERS SHALL HAVE CAST BRASS HOLD-DOWN LUGS, AND SHALL BE INSCRIBED "STREET LIGHTING." A PULL BOX SHALL BE INSTALLED AT EACH ELECTROLIER.
6. PULL BOXES SHALL BE NOT MORE THAN 250 FEET APART ON LONG RUNS.
7. WHERE PULL BOXES ARE SUBJECT TO TRAFFIC LOADS, THEY SHALL BE SET ON A CONCRETE FOOTING AND THE COVER SHALL BE CAST IRON OR STEEL OF SUFFICIENT STRENGTH TO WITHSTAND THE TRAFFIC LOAD. (H20 LOADING)
8. RISERS INSTALLED ON UTILITY-OWNED POLES SHALL CONFORM TO SPECIFICATIONS SUPPLIED BY THE UTILITY COMPANY. ELECTRIC SERVICE POINT SHALL BE APPROVED BY PACIFIC GAS & ELECTRIC COMPANY.
9. CONDUCTOR SHALL BE UL LISTED AWG NO. 8 OR LARGER WITH 7 STRAND SOFT COPPER TYPE THW, THHN, XHHW, OR RHW WITH A MINIMUM OF 3/64 OF AN INCH INSULATION. HOWEVER, WIRES IN THE POLE SHALL BE MINIMUM #14.
10. NO MECHANICAL MEANS SHALL USED TO PULL WIRES SMALLER THAN NO. 1 AWG.
11. ALL SPLICES FOR GREATER THAN AWG NO. 10 SHALL BE IN PULL BOXES AND HAVE APPROVED SOLDERLESS CONNECTORS OF PROPER SIZE.
12. A FIBERGLASS OR POLYPROPYLENE PULL ROPE SHALL BE LEFT IN ALL EMPTY CONDUITS.
13. CONTRACTOR TO MEET PG&E REQUIREMENTS FOR CONDUIT AND CONDUCTORS BETWEEN THE PG&E AND CITY PULL BOXES.
14. FUSES SHALL BE LOCATED IN THE PULL BOX ADJACENT TO EACH ELECTROLIER. CONTRACTOR SHALL PROVIDE ADDITIONAL PULL BOX, PG&E SERVICE BOX, AND FUSE HOLDERS AND FUSES. IF PG&E SECONDARY BOX IS WITHIN 6' OF THE ELECTROLIER, THE ADDITIONAL PULL BOX IS NOT NEEDED.
15. ALL CONDUIT ENDS SHALL BE DUCT SEALED.
16. POLE NUMBERS SHALL BE PLACED ON ALL ELECTROLIERS. LOCATION AND SIZE OF NUMBERS TO BE AS SPECIFIED IN SECTION 32 "STREET LIGHTING SYSTEM," PAGE 26 OF THE CITY OF FREMONT STANDARD SPECIFICATIONS
17. EACH PULL BOX SHALL BE SET ON 6" MIN. OF CLEAN DRAIN ROCK.
18. PULL BOXES SHALL BE PLACED AT ALL ANGLE POINTS IN CONDUIT RUNS.
19. ALL STREET CROSSINGS SHALL BE 90° TO THE CENTERLINE.
20. STREET LIGHT DESIGN FOR MORE THAN 4 LIGHTS SHALL BE STAMPED, SIGNED AND DATED BY A ELECTRICAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.
21. BOLT EXTENDERS MAY ONLY BE USED TO RAISE AN EXISTING, UNDAMAGED POLE AND BASE TO GRADE. STRUCTURAL CALCULATIONS AND/OR CERTIFICATION FROM THE MANUFACTURER IS NEEDED FOR THE PROPOSED BOLT EXTENDER.

<h1 style="margin: 0;">CITY OF FREMONT</h1> <h2 style="margin: 0;">STANDARD DETAILS</h2> <h3 style="margin: 0;"><u>ELECTROLIER NOTES</u></h3>			DATE APPROVED BY CITY COUNCIL 04/11/06				
			RESOLUTION NO. 2006-31				
							
			CITY ENGINEER				
NO.	REVISED	DATE					
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FILE NO. SD-24-06.DWG	SCALE NONE	DRAWN DC	CHECKED KC	DATE 03/08/06	DWG NO. SD-24	4 of 7	



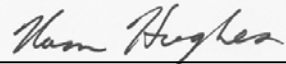
			<b>CITY OF FREMONT</b> STANDARD DETAILS  <u>ELECTROLIER</u> <u>MISSION BELL</u>			DATE APPROVED BY CITY COUNCIL 04/11/06	
						RESOLUTION NO. 2006-31	
						 CITY ENGINEER	
NO.	REVISED	DATE					
REVISIONS							
FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.		
SD-24-06.DWG	NONE	WPM	KC	03/14/06	SD-24	5 of 7	

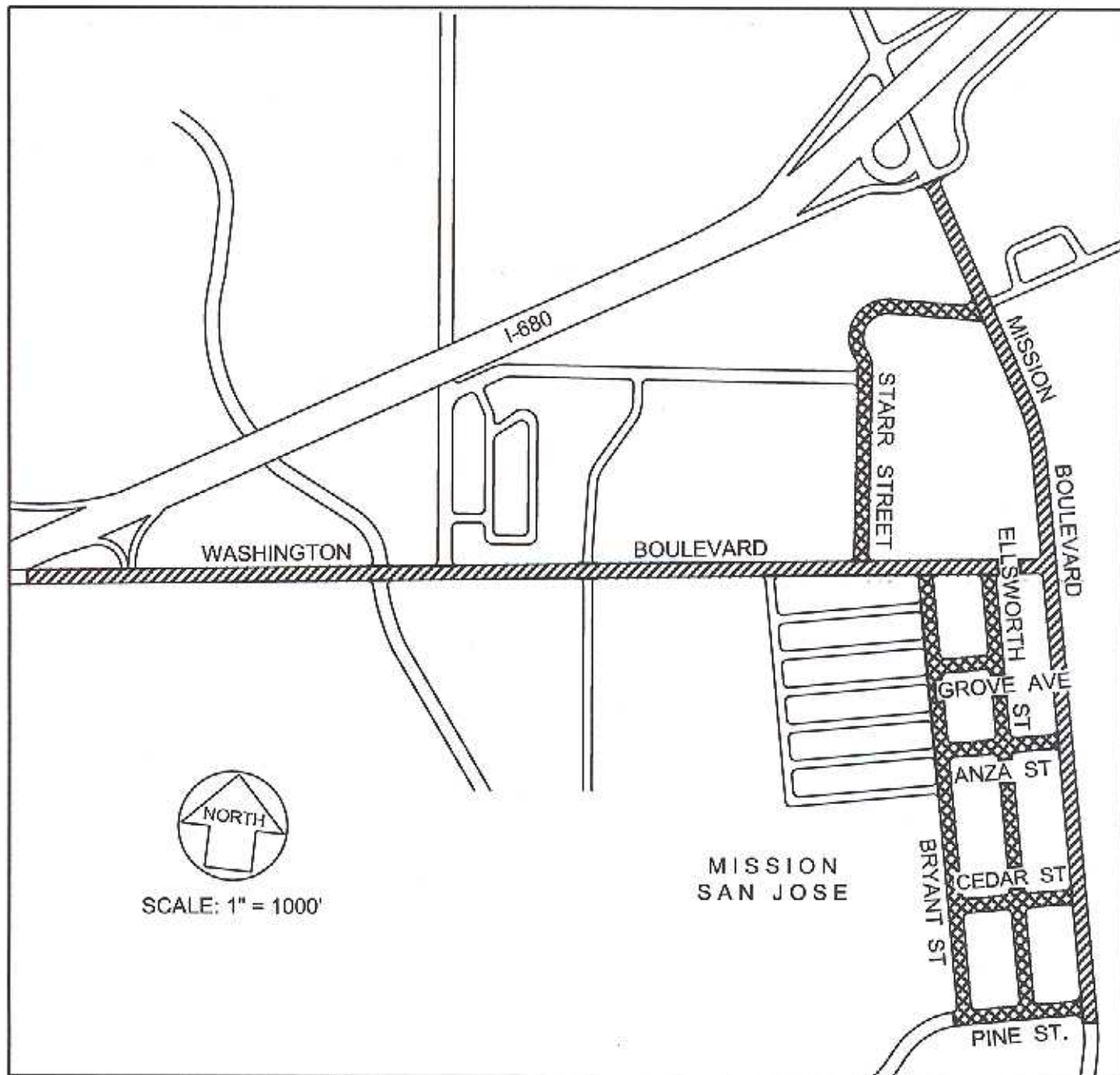
MOUNTING HEIGHT	ELECTROLIER		LUMINAIRE
	SINGLE 6' ARM	DOUBLE 6' ARM	
28'-6"	UNION METALS DESIGN FB-MB #FB-7250-MB6 (OR APPROVED EQUAL) LA-7055-A*	UNION METALS DESIGN FB-MB #FB-7250-MMB6 (OR APPROVED EQUAL) LA-7055-AA	GENERAL ELECTRIC CAT. NO. M2AR 07SI N2AM S31 70 WATT 5800 LUMENS (OR APPROVED EQUAL)
32'-0"	UNION METALS DESIGN FB-MB #FB-7286-MB6 (OR APPROVED EQUAL) LA-7055-B*	UNION METALS DESIGN FB-MB #FB-7286-MMB6 (OR APPROVED EQUAL) LA-7055-BB*	GENERAL ELECTRIC CAT. NO. M2AR 10SI N2AM S31 100 WATTS 9500 LUMENS (OR APPROVED EQUAL)

REFER TO SHEET 4 FOR CONSTRUCTION NOTES.

REFER TO SHEET 7 FOR LIMITS OF INSTALLATION.

\*PUMCO DRAWING NUMBER

			<b>CITY OF FREMONT</b> STANDARD DETAILS <b>ELECTROLIER AND LUMINAIRE</b> <b>TABLE - MISSION BELL</b>			DATE APPROVED BY CITY COUNCIL 04/11/06	
						RESOLUTION NO. 2006-31	
						 CITY ENGINEER	
NO.	REVISED	DATE					
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FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.		
SD-24-06.DWG	NONE	WPM	KC	03/14/06	SD-24	6 of 7	



#### LEGEND



33 FT MOUNTING HEIGHT "MISSION BELL" ELECTROLIER



28 FT MOUNTING HEIGHT "MISSION BELL" ELECTROLIER

			<h2 style="text-align: center;">CITY OF FREMONT</h2> <h3 style="text-align: center;">STANDARD DETAILS ELECTROLIER LIMITS AND INSTALLATION MISSION BELL</h3>			DATE APPROVED BY CITY COUNCIL			
						04/11/06			
					RESOLUTION NO.				
					2006-31				
					 CITY ENGINEER				
NO.	REVISED	DATE	FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWC NO.	
REVISIONS			SD-24-06.DWG	NONE	WPM	KC	12/16/05	SD-24	7 of 7